

【書類名】 図面  
【図1】

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Fig. 1

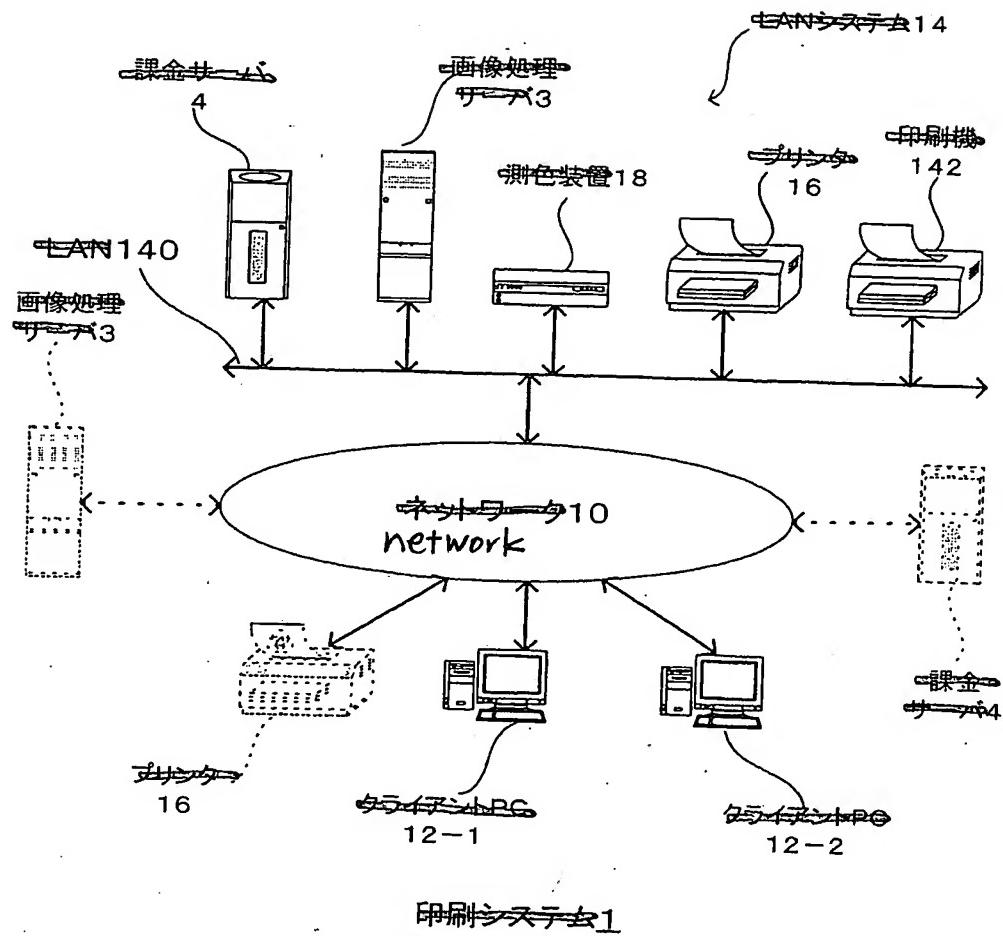


Fig. 2

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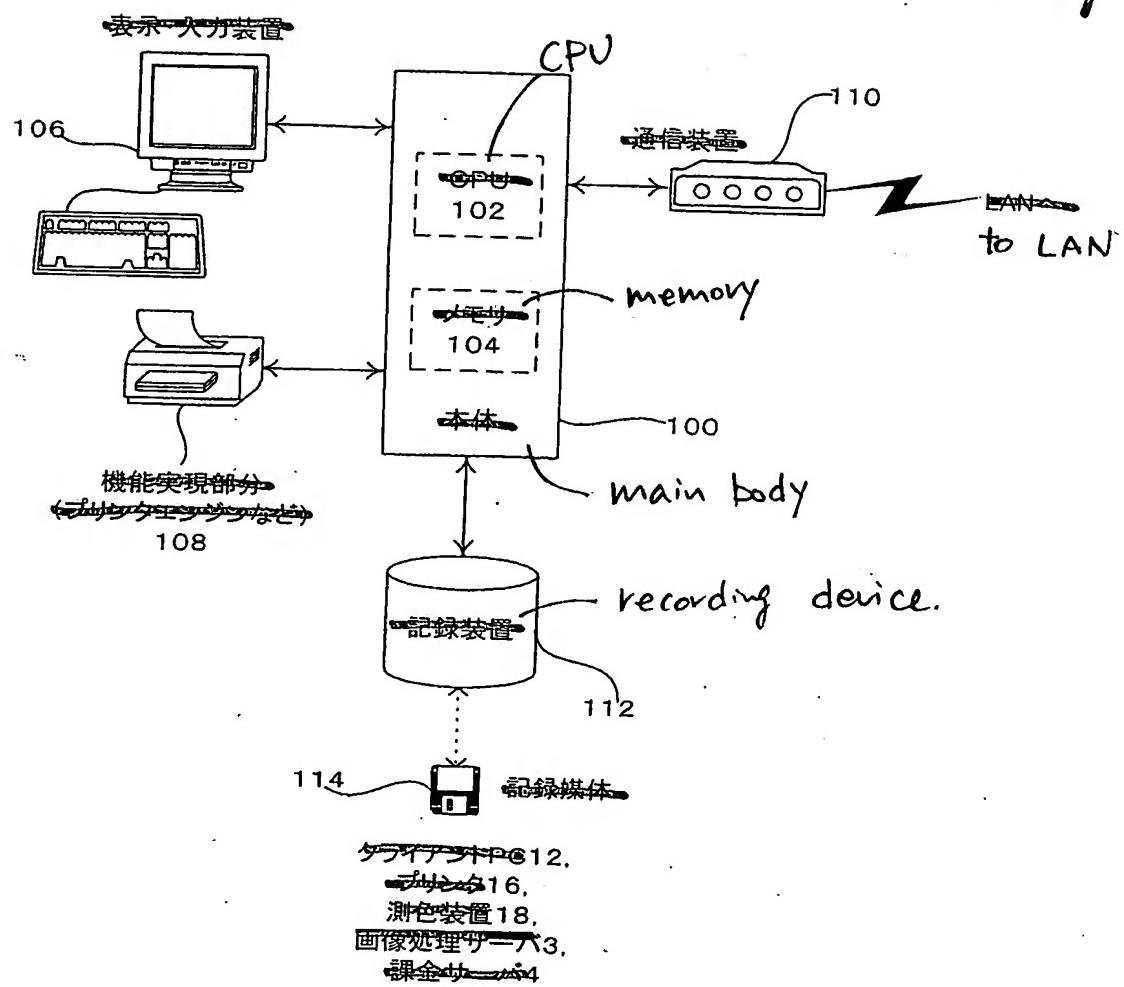


Fig. 3

300 profile data receiving section  
302 profile DB  
304 drawing data receiving section  
306 drawing data DB  
308 user interface section  
310 RIP processing section  
312 color correcting processing section  
314 process history DB  
316 re-processing control section  
318 accounting information generating section  
320 accounting information DB  
322 accounting information transmitting section  
324 communication control section  
326 authentication section

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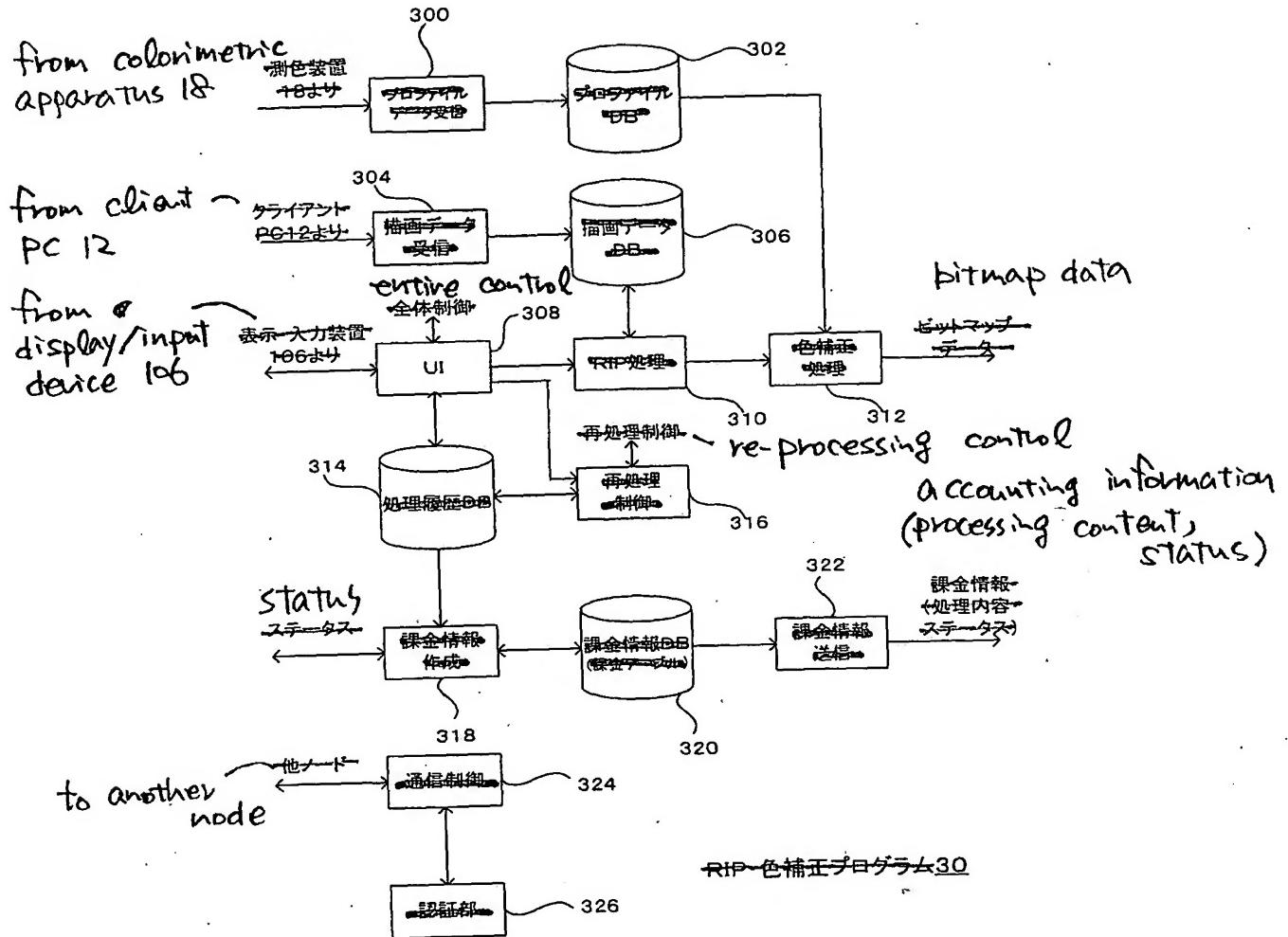
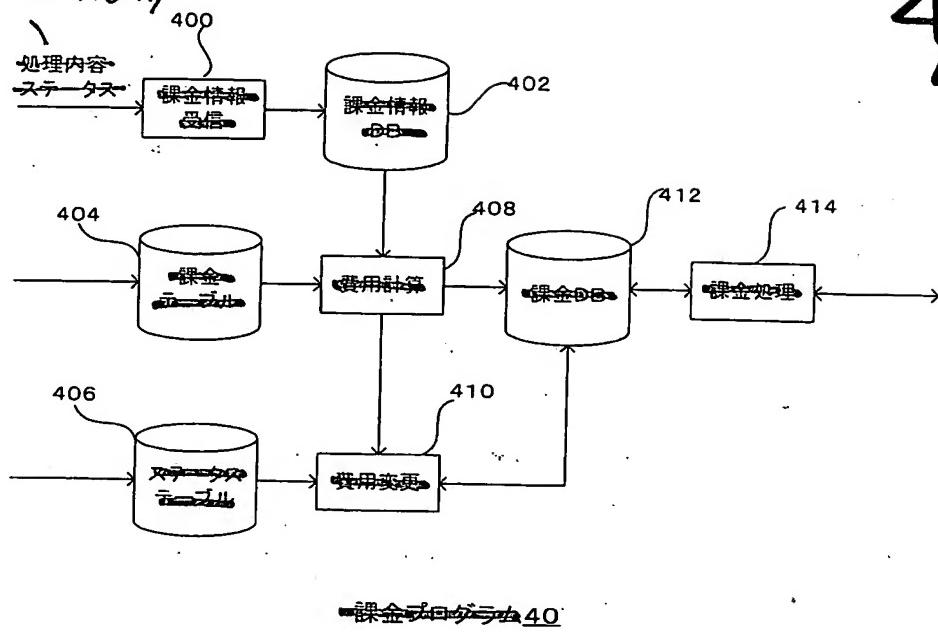


図4 Fig. 4

processing content/  
status



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課金プロセス 40

図5 Fig. 5

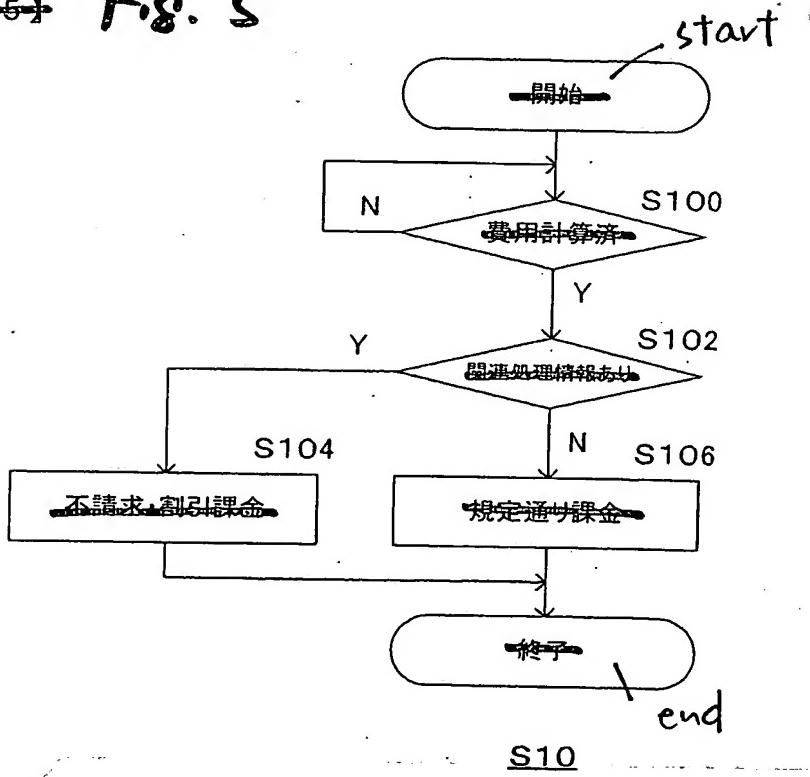


Fig. 4

400 accounting information receiving section  
402 accounting information DB  
404 accounting table  
406 status table  
408 fee calculating section  
410 fee changing section  
412 accounting DB  
414 charging processing section

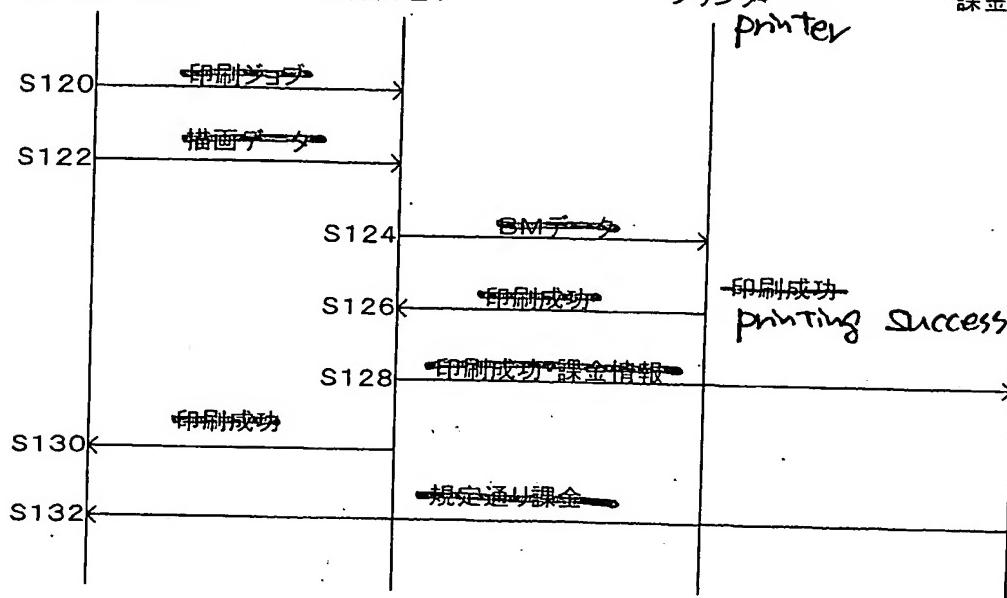
Fig. 5

S100 Has a fee already been calculated?  
S102 Is related information contained?  
S104 not charging or charging with discount  
S106 charging a predetermined fee

図6 Fig. 6

client PC  
クライアントPC  
image processing server  
画像処理サーバー  
printer  
プリンタ

charging server  
課金サーバー  
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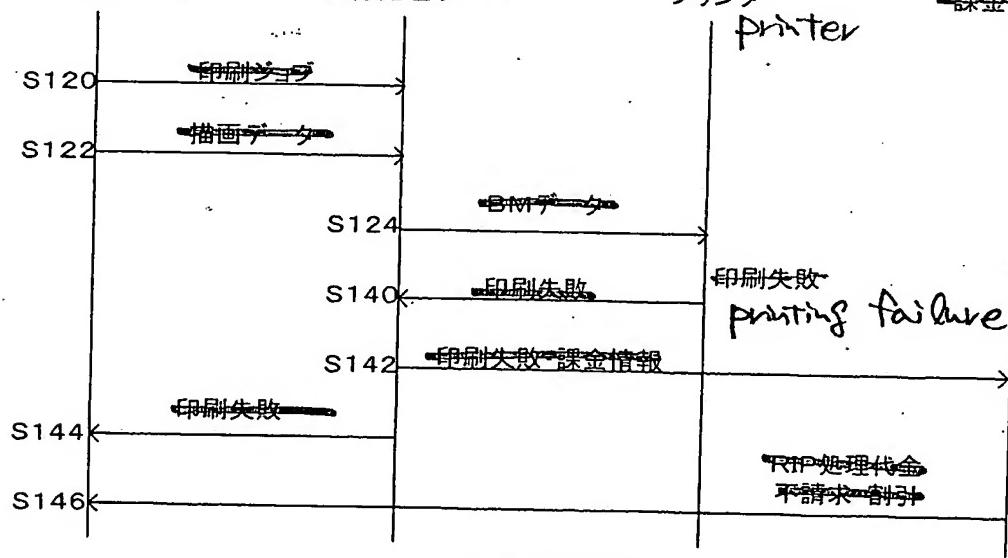


正常シーケンス S12

図7 Fig. 7

client PC  
クライアントPC  
image processing server  
画像処理サーバー  
printer  
プリンタ

charging server  
課金サーバー



印刷失敗 S14

Fig. 6

S120 print job  
S122 drawing data  
S124 bitmap data  
S126 printing success  
S128 printing success/accounting information  
S130 printing success  
S132 charging for a predetermined fee

Fig. 7

S120 print job  
S122 drawing data  
S124 bitmap data  
S140 printing failure  
S142 printing failure/accounting information  
S144 printing failure  
S146 not-charging or discounting an accounting for RIP processing

【図8】

Fig. 8

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charging server  
課金サーバ

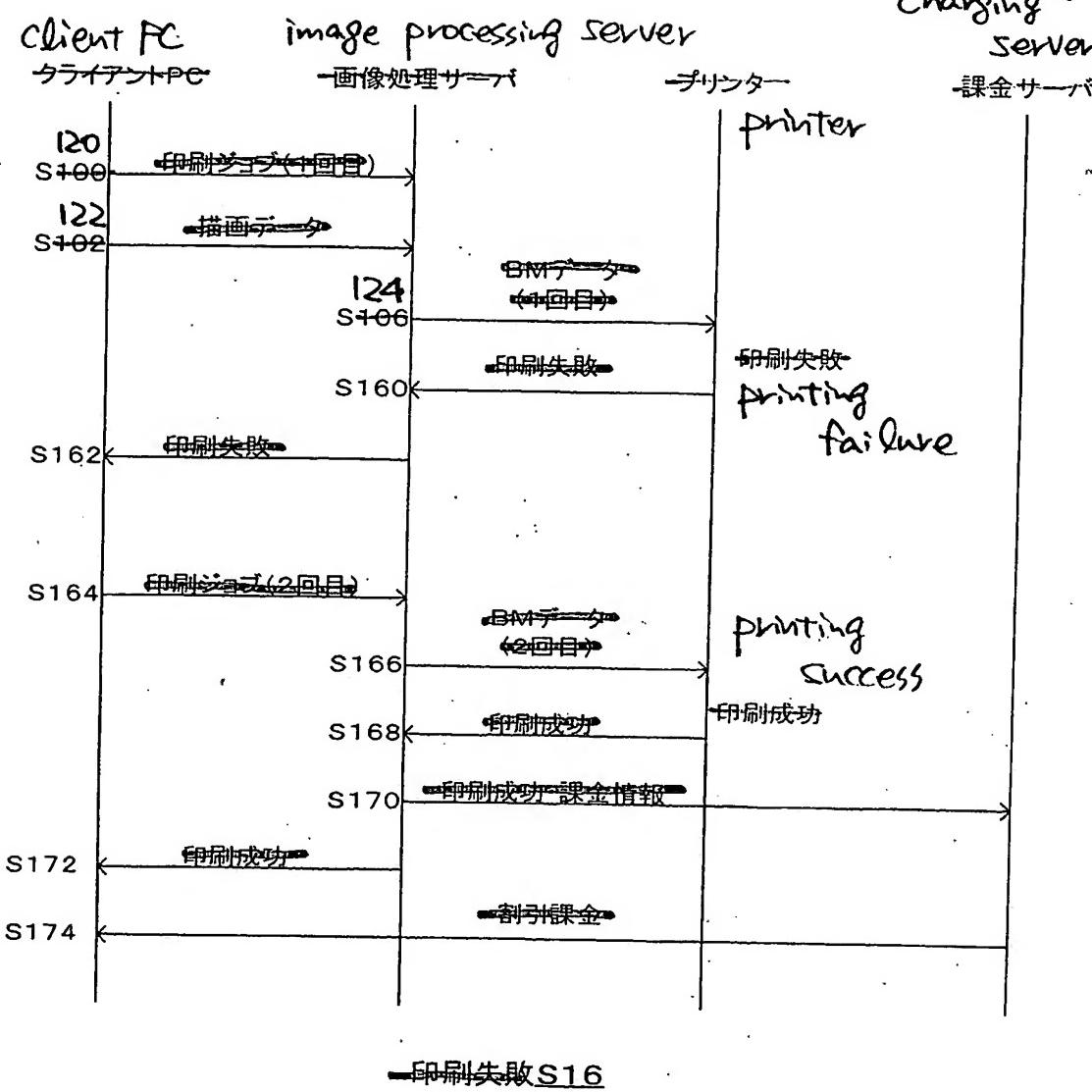
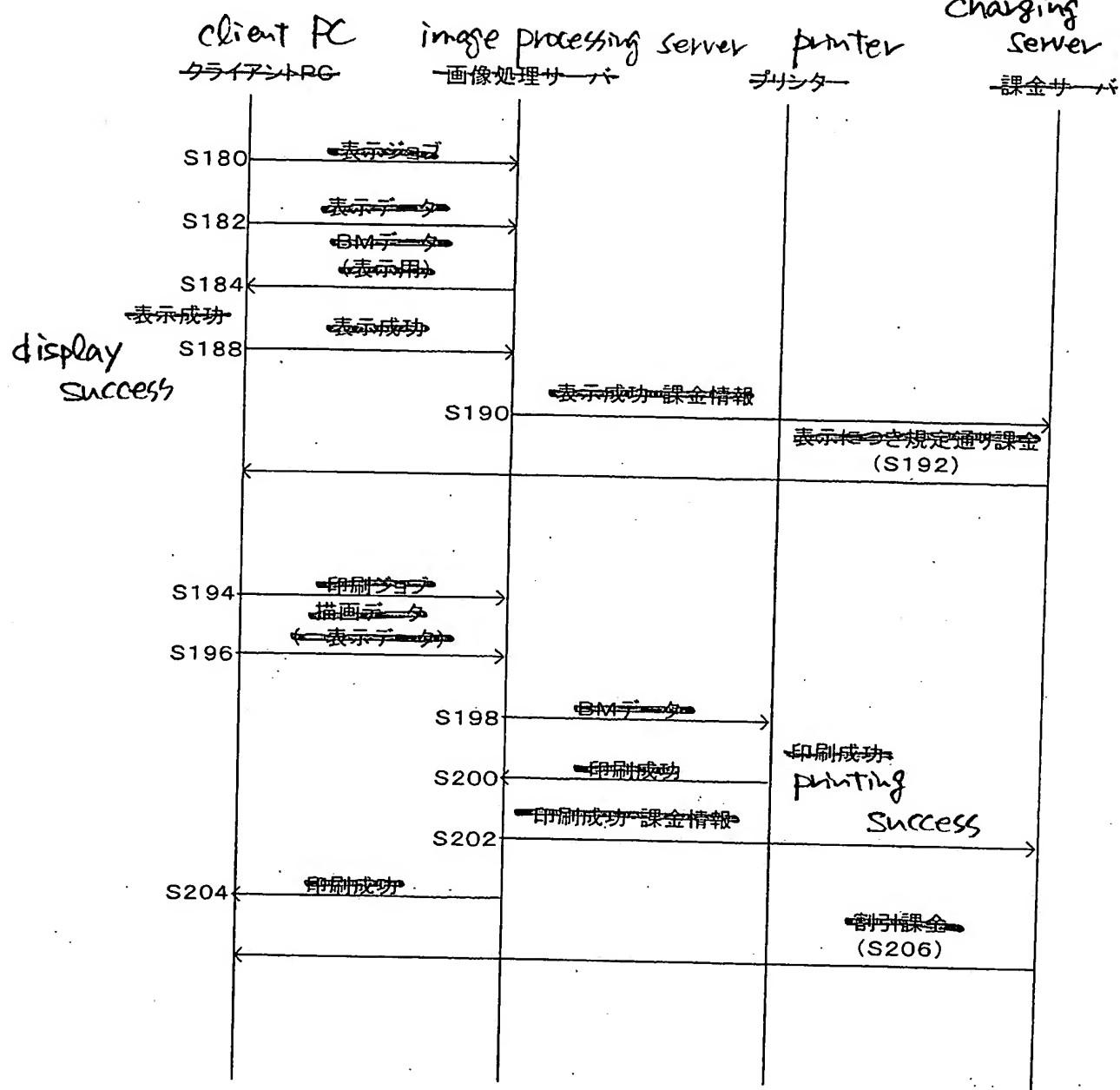


Fig. 8

S120 print job (first time)  
S122 drawing data  
S124 bitmap data (first time)  
S160 printing failure  
S162 printing failure  
S164 print job (second time)  
S166 bitmap data (second time)  
S168 printing success  
S170 printing success/accounting information  
S172 printing success  
S174 charging with discount

Fig. 9

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S18

Fig. 9

S180 display job  
S182 display job  
S184 bitmap data (for display)  
S188 display success  
S190 display success/accounting information  
S192 charging for a predetermined fee for display  
S194 print job  
S196 drawing data (= display data)  
S198 bitmap data  
S200 print success  
S202 print success/accounting information  
S204 print success  
S206 charging with discount

【図10】

Fig. 10

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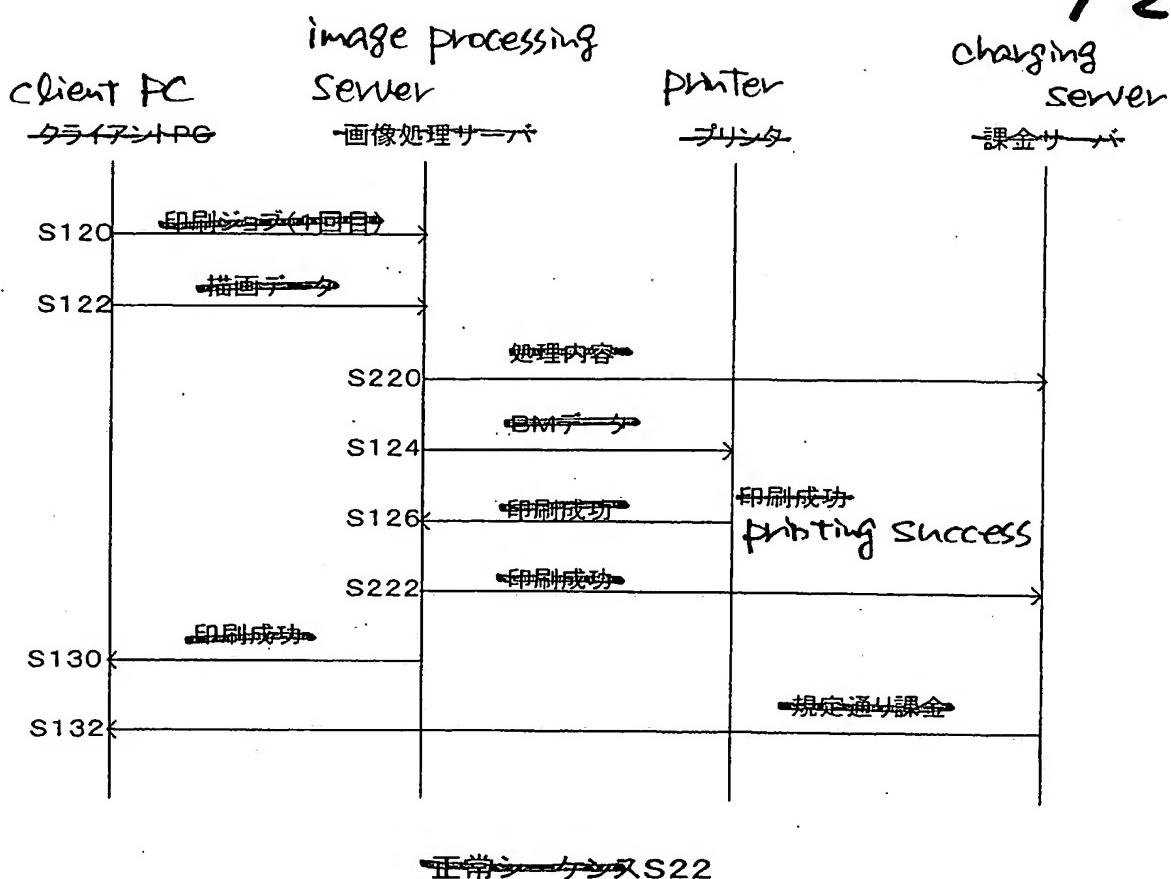


Fig. 10

S120 print job (first time)  
S122 drawing data  
S220 processing content  
S124 bitmap data  
S126 printing success  
S222 printing success  
S130 printing success  
S132 charging for a predetermined fee

Client  
PC

【図1】 Fig. 11 image processing server charging server

クライアントPC

画像処理

プリント

課金

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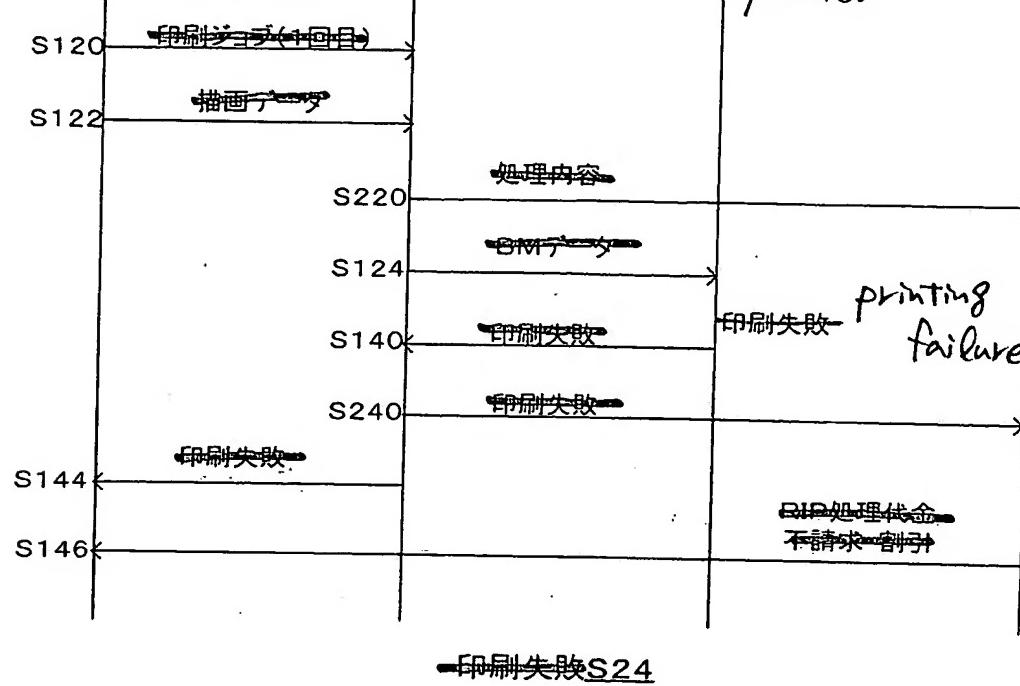


Fig. 11

S120 print job (first time)  
S122 drawing data  
S220 processing content  
S124 bitmap data  
S140 printing failure  
S240 printing failure  
S144 printing failure  
S146 not-charging or discounting an accounting for RIP processing

【図1-2】

Fig. 12

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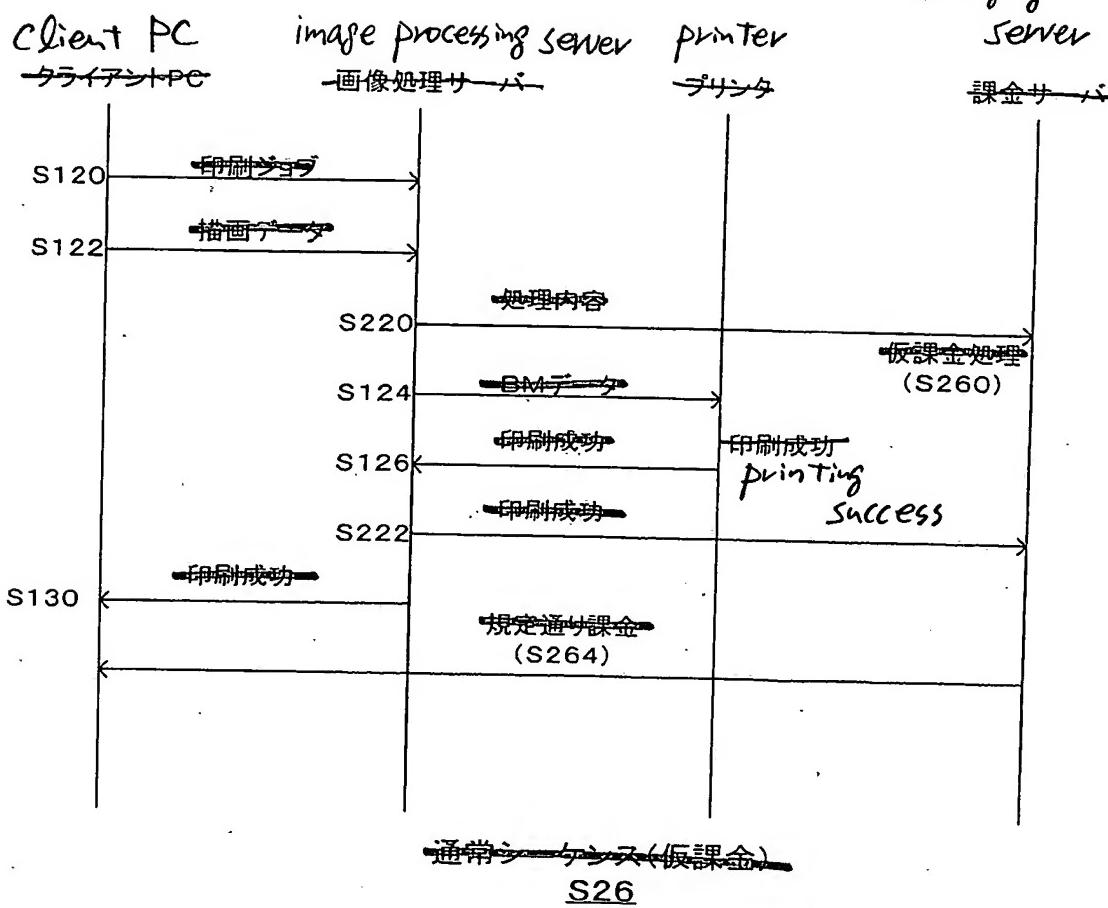


Fig. 12

S120 print job  
S122 drawing data  
S220 processing content  
S260 provisional charging processing  
S124 bitmap data  
S126 printing success  
S222 printing success  
S130 printing success  
S264 charging for a predetermined fee

図13

Fig. 13

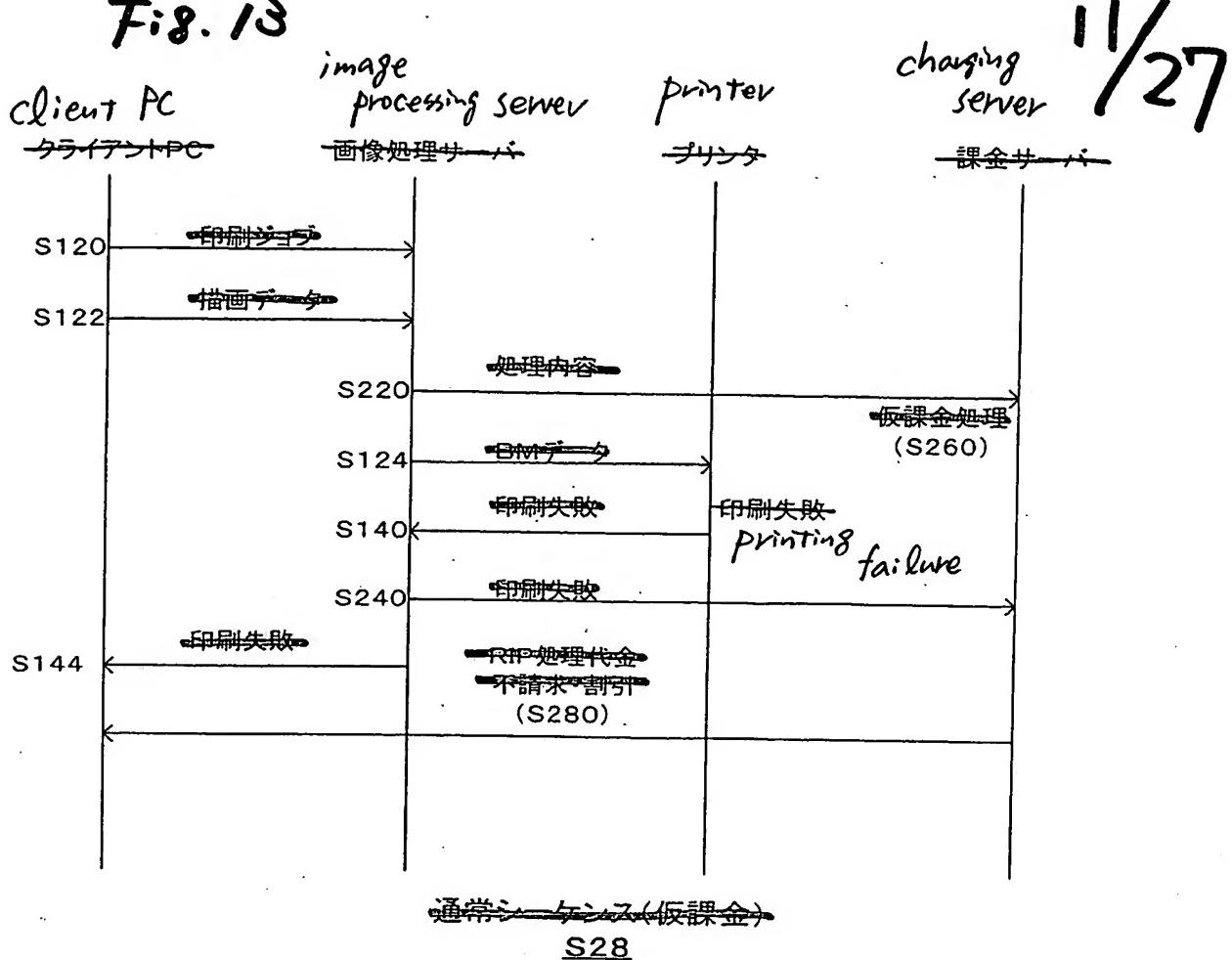


Fig. 13

S120 print job  
S122 drawing data  
S220 processing content  
S260 provisional charging processing  
S124 bitmap data  
S140 printing failure  
S240 printing failure  
S144 printing failure  
S280 not-charging or discounting an accounting for RIP processing

Fig. 14

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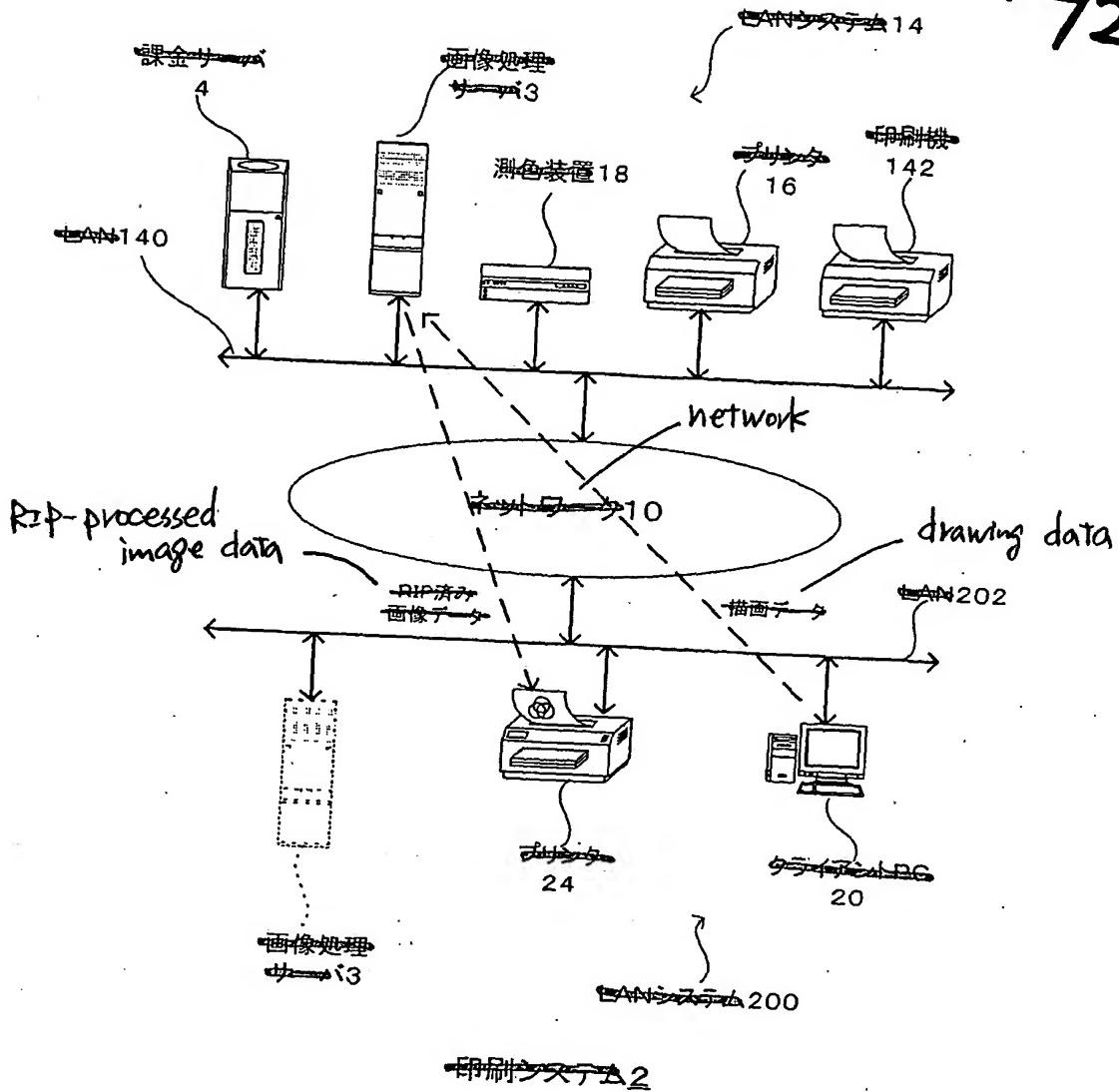
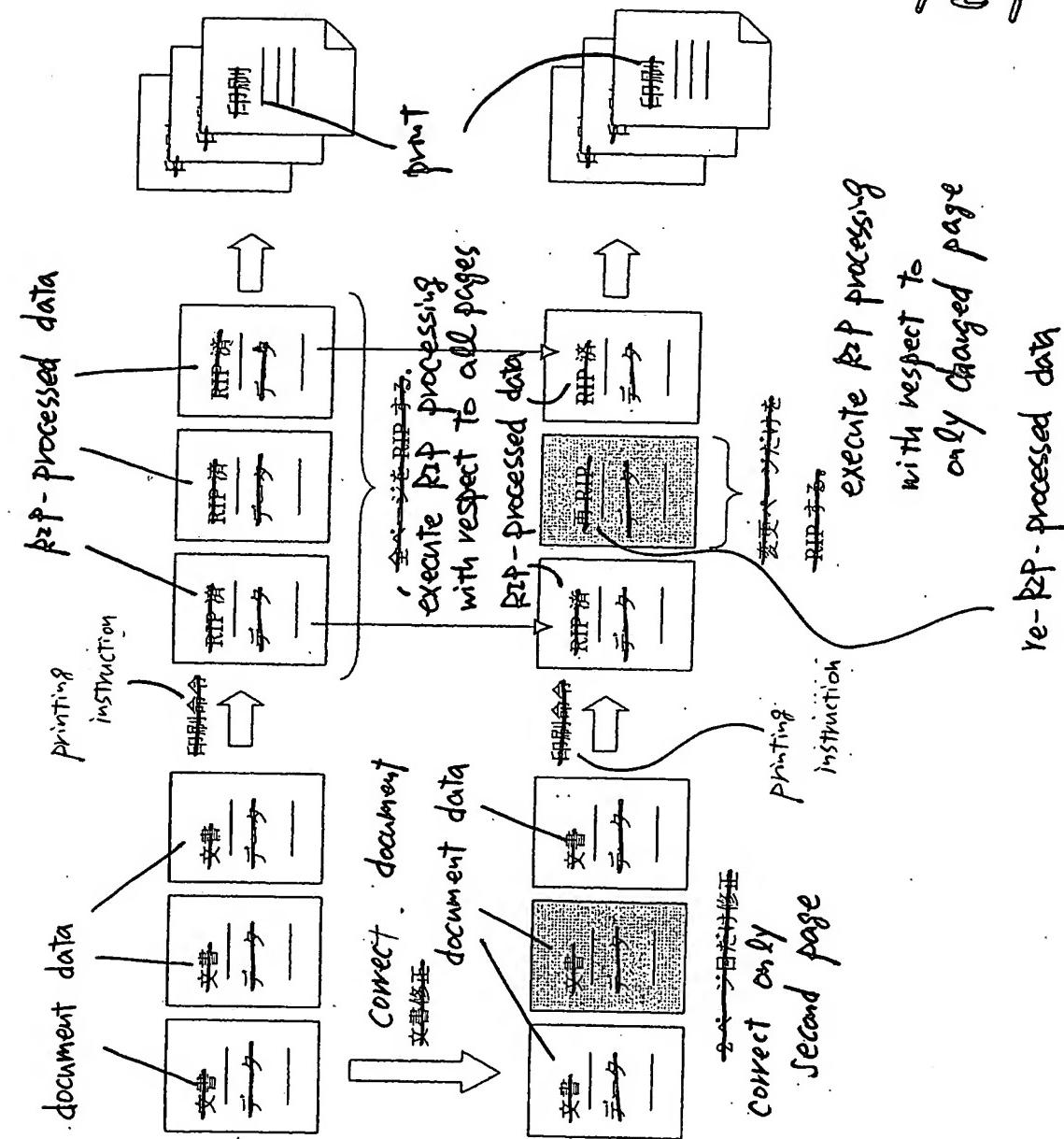
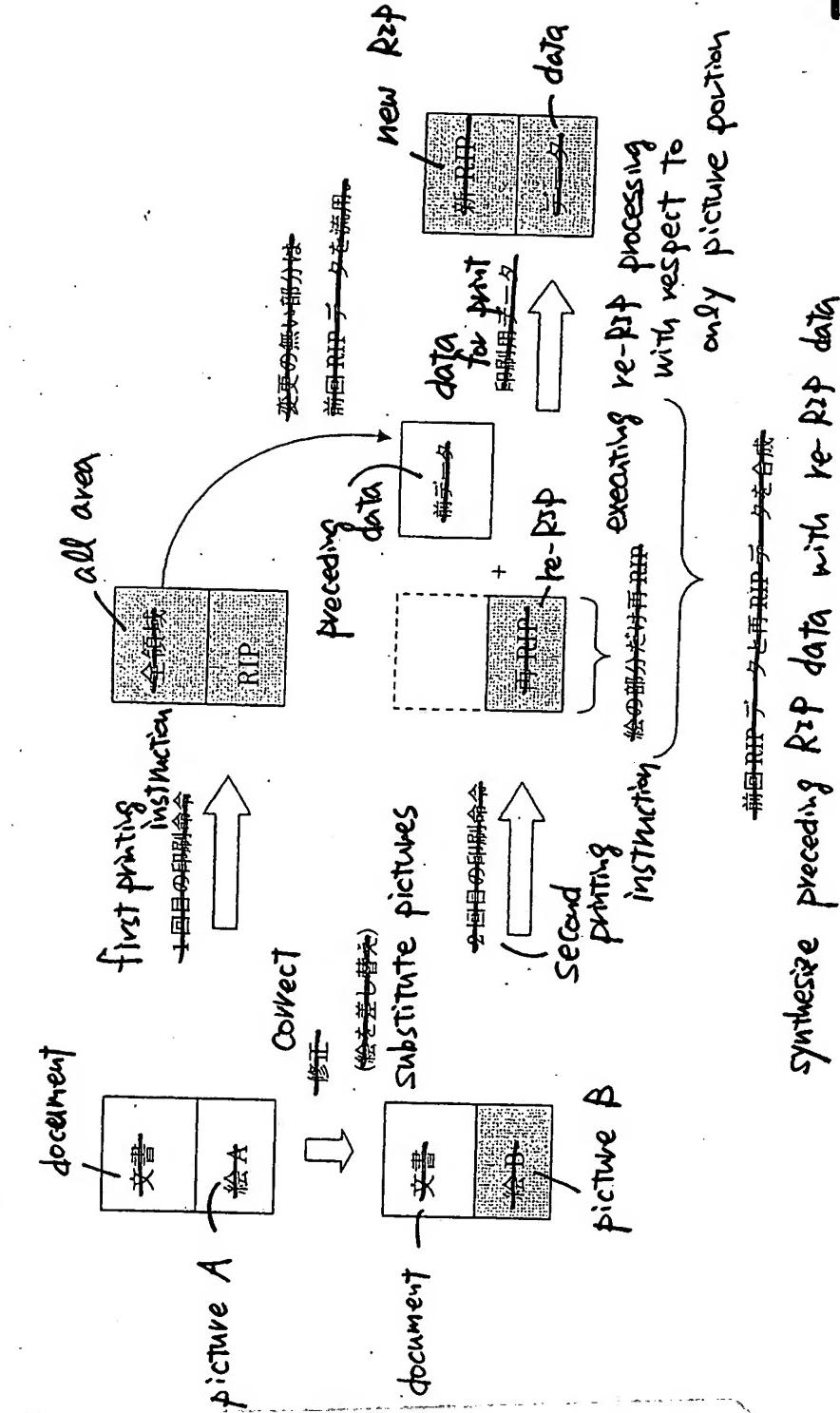


Fig. 15



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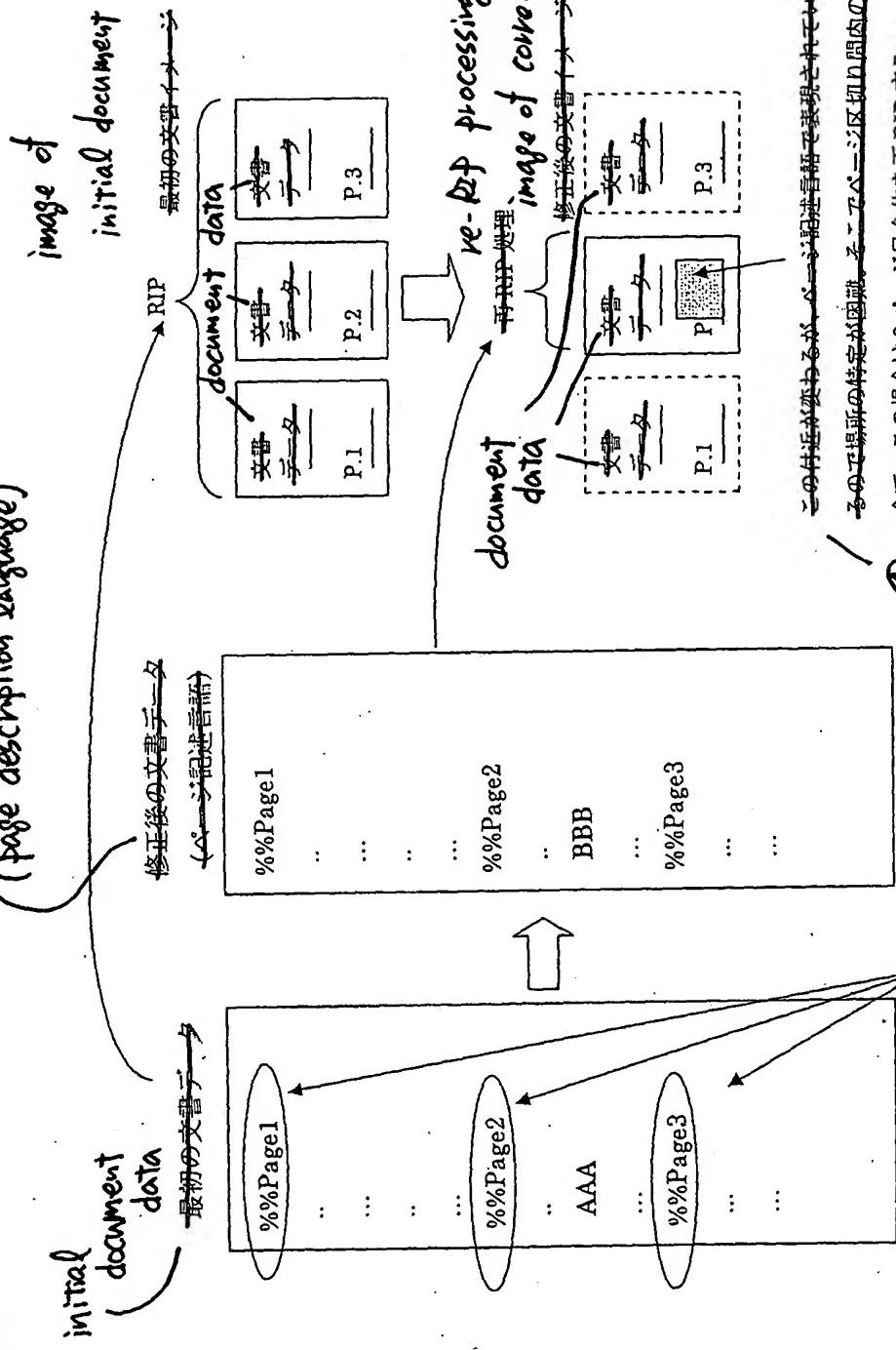
Fig. 16



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Fig. 17

Corrected document data  
(page description language)



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Fig. 17

(A) Although this area is changed, it is difficult to specify a position. This is because the document data is expressed in the page description language. Therefore, the re-RIP processing is executed with respect to all portions between page separation marks (in this case, entire second page).

Fig. 18

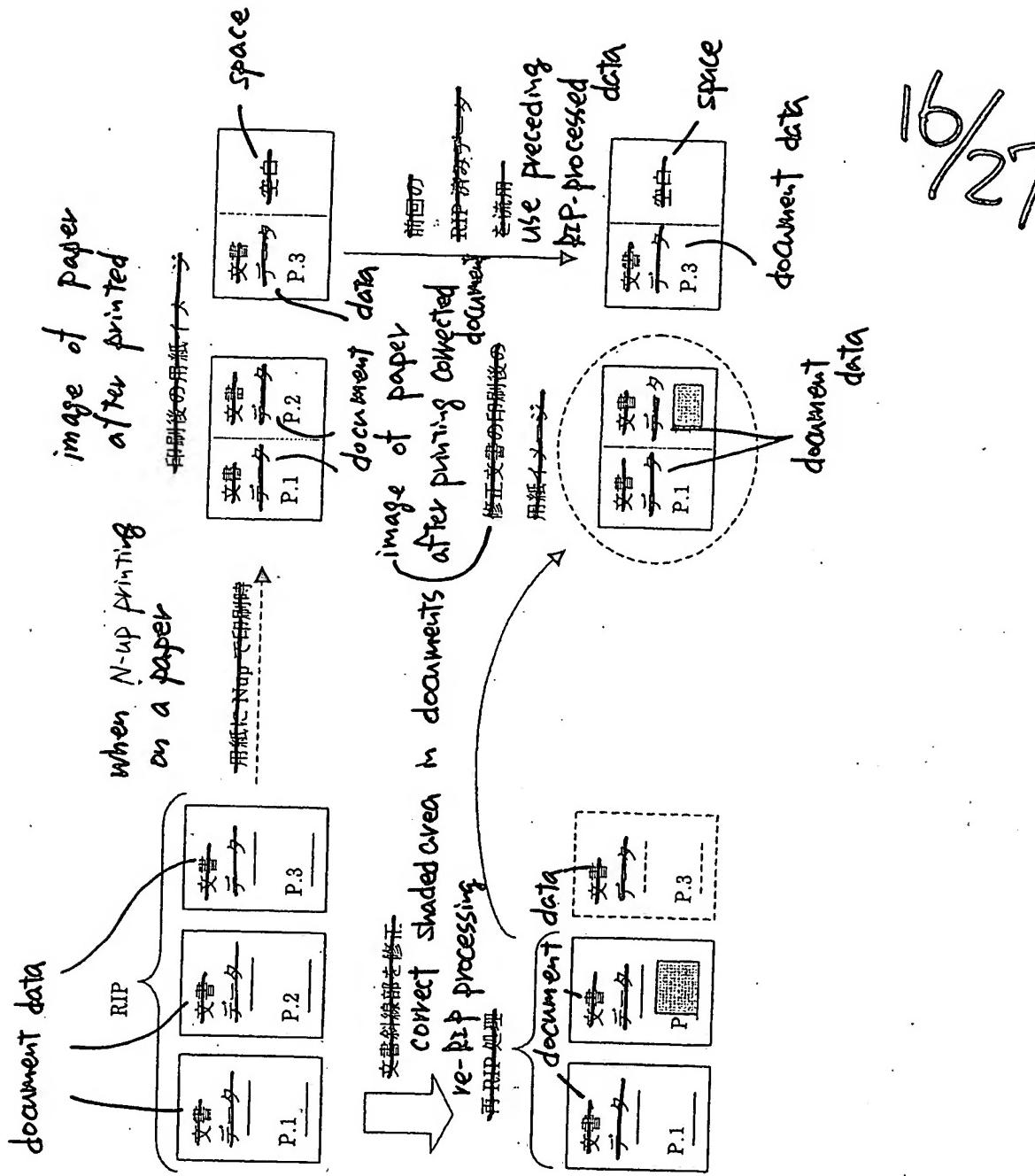


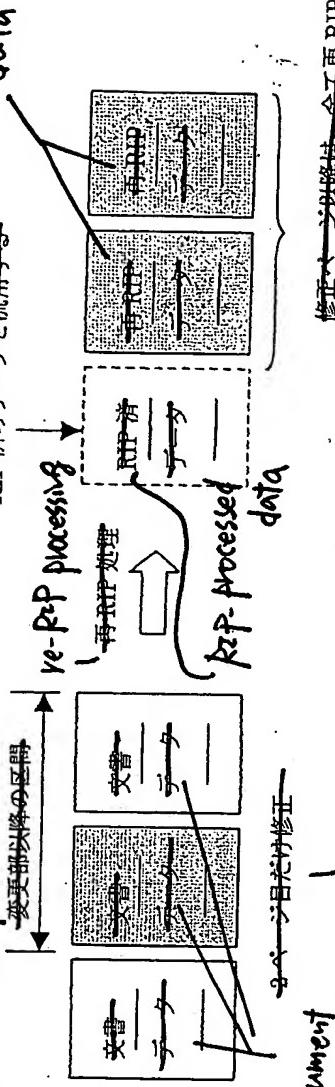
Fig. 19

use preceding RPP-processed data  
before corrected page

when printing corrected document

/ portions following  
corrected portion

変更部以外の区間



document  
data  
| correct only second page

execute re-RPP processing  
with respect to all pages,  
following corrected page

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【図20】

Fig. 20

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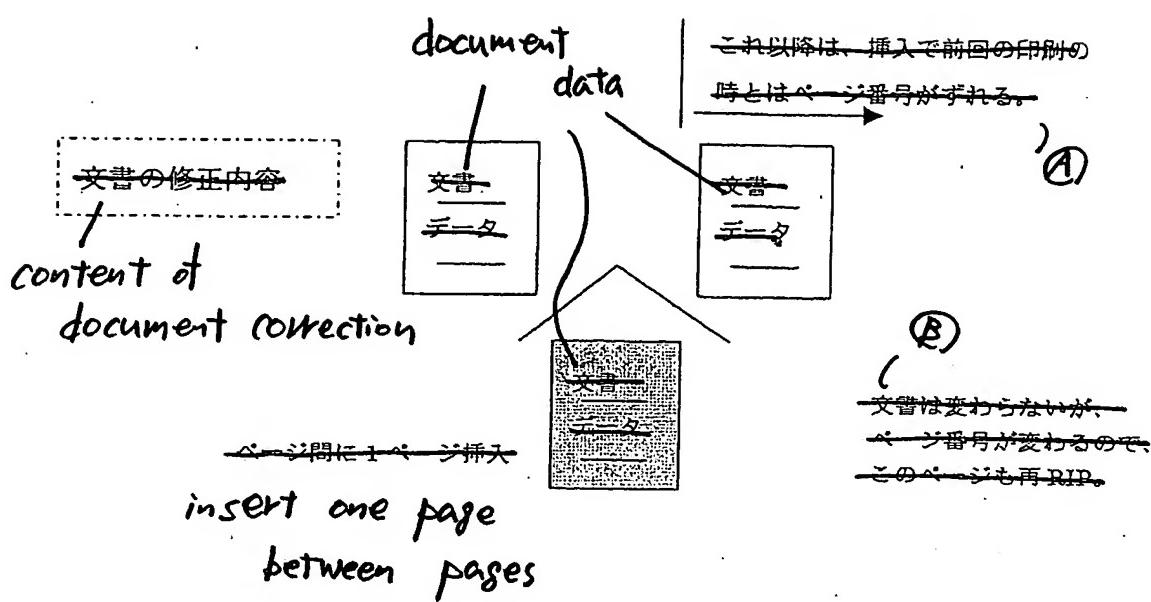


Fig. 20

- (A) After here, insertion causes page numbers to be different from those at a time of preceding printing
- (B) Although document is not changed, page numbers are changes. Therefore, re-RIP processing is also executed with respect to this page.

Fig. 21

first printing instruction  
(before correcting)

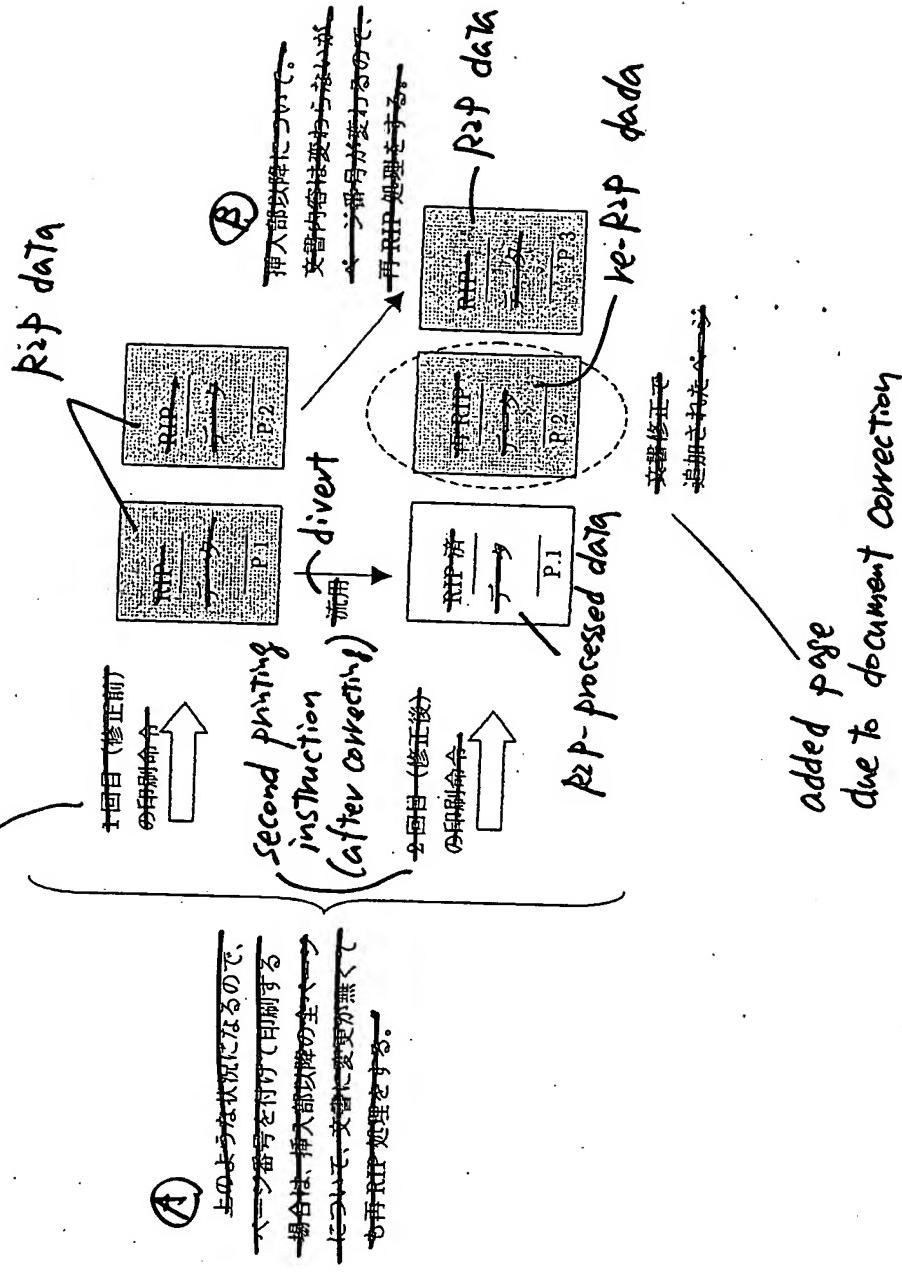


Fig. 21

- (A) Since situation becomes as shown in right portion, in a case of printing with adding a page number, re-RIP processing is executed with respect to all pages following an inserted portion even without correcting document.
- (B) With regard to portions following the inserted portion, document content is not changed. However, since page numbers are changed, re-RIP processing is executed.

Fig. 22

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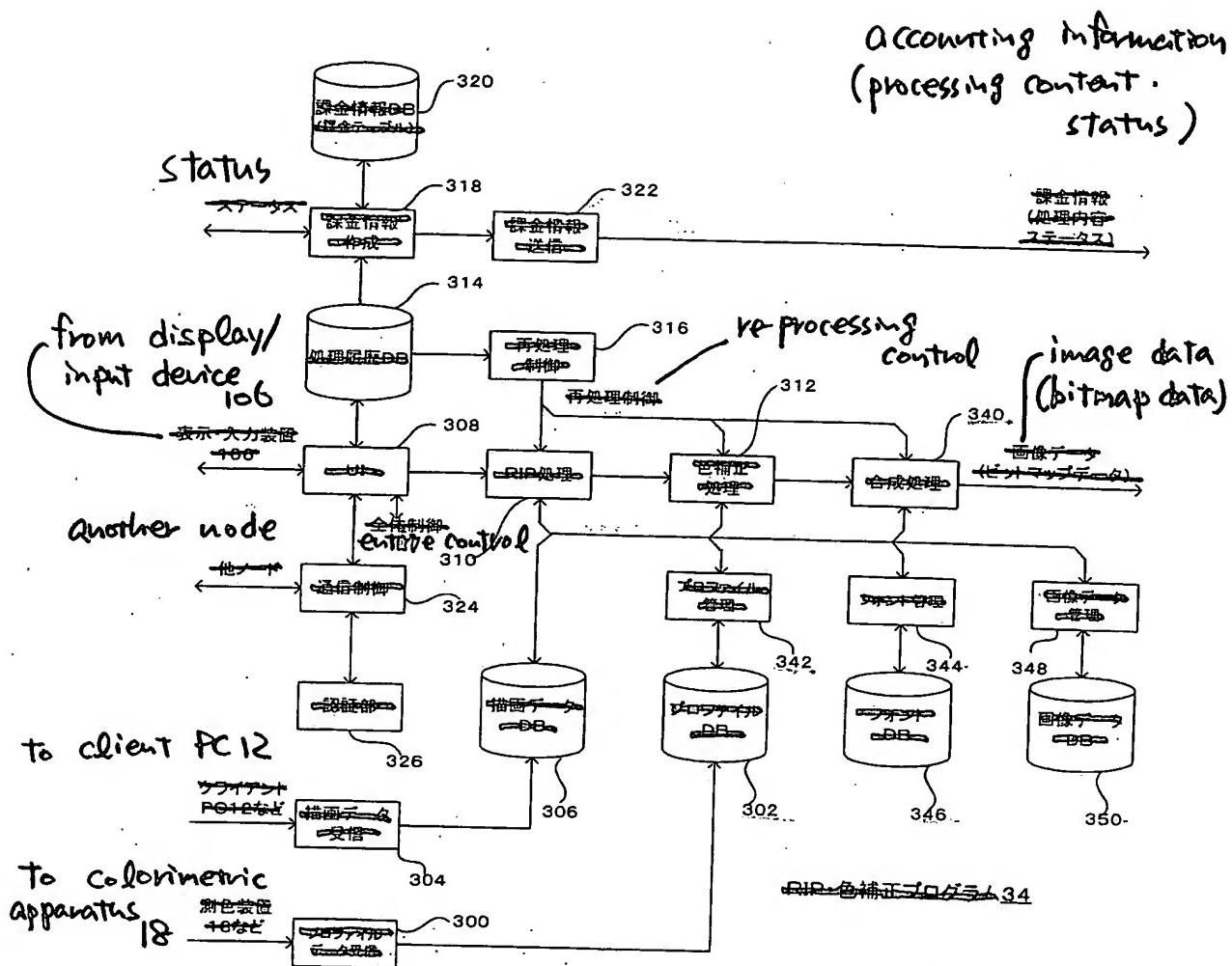
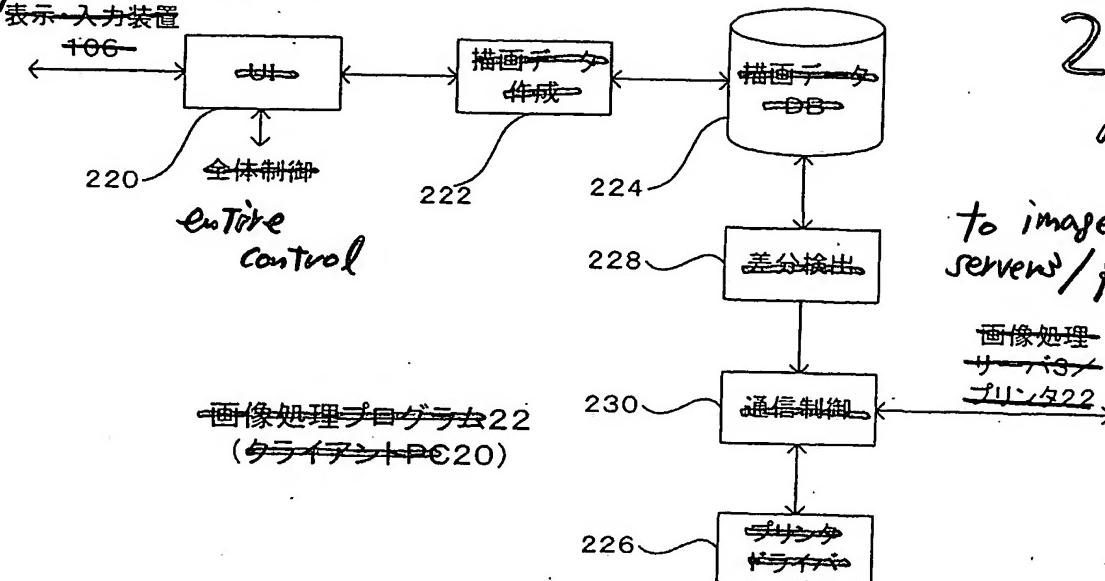


Fig. 22

300 profile data receiving section  
302 profile DB  
304 drawing data receiving section  
306 drawing data DB  
308 user interface section  
310 RIP processing section  
312 color correcting processing section  
314 process history DB  
316 re-processing control section  
318 accounting information generating section  
320 accounting information DB  
322 accounting information transmitting section  
324 communication control section  
326 authentication section  
340 synthesizing processing section  
342 profile managing section  
344 font managing section  
346 font DB  
348 image data managing section  
350 image data DB

図23 Fig. 23  
to display/input device 106



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to image processing server/printers

図24 Fig. 24  
to display/input device 106

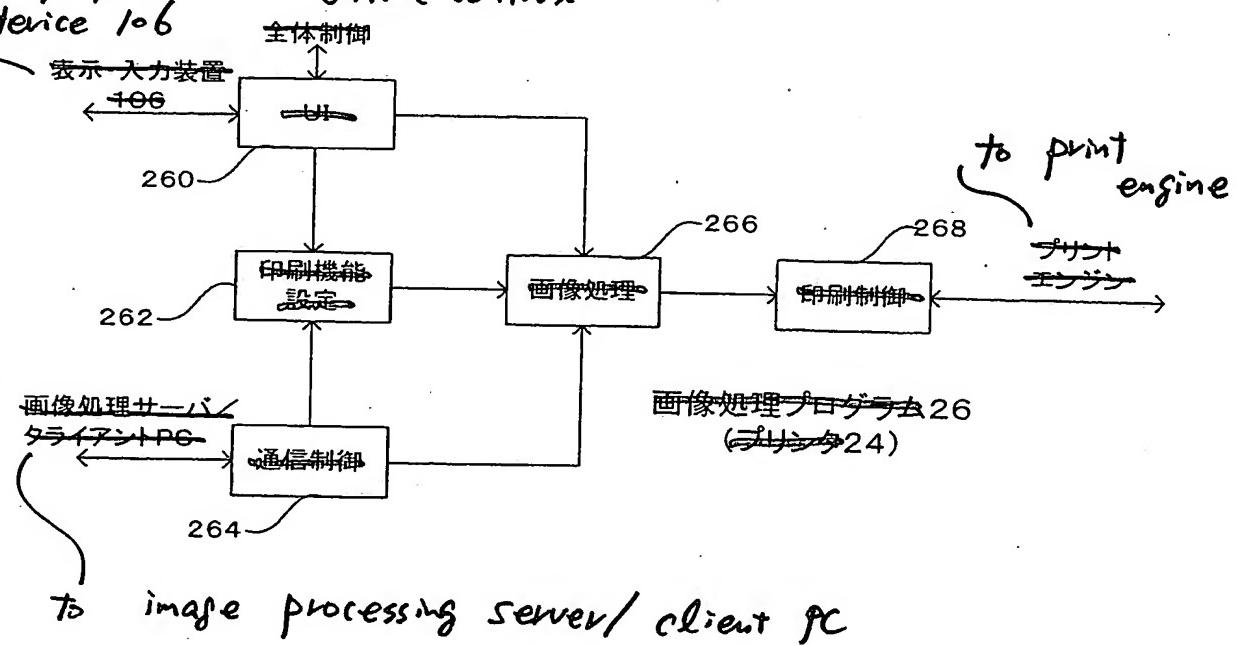


Fig. 23

220 UI section  
222 drawing data generating section  
224 image data DB  
228 difference detecting section  
230 communication control section  
226 printer driver section

Fig. 24

260 UI section  
262 printing function setting section  
264 communication control section  
266 image processing section  
268 print control section

Fig. 25

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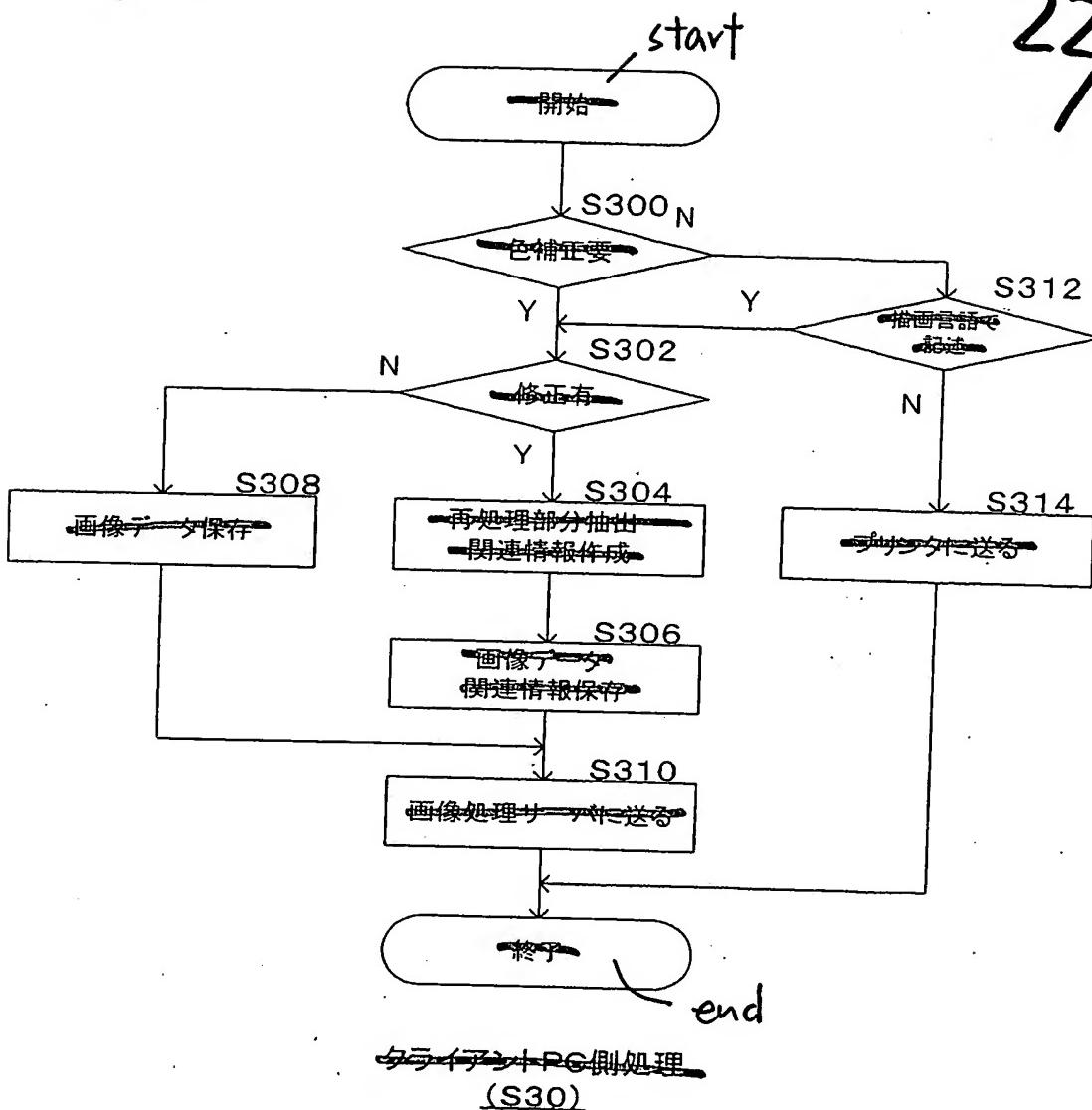
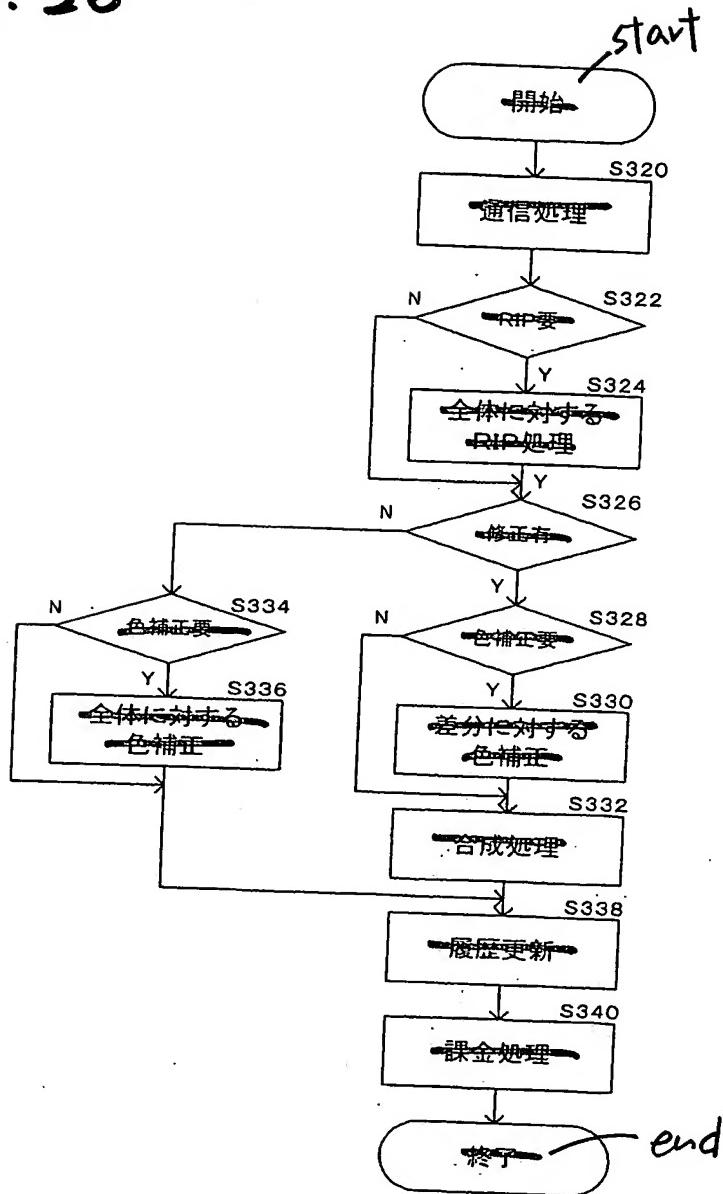


Fig. 25

S300 Is it necessary to execute color correcting processing?  
S302 corrected?  
S304 extract re-processed portion/generate related information  
S306 store image data/related information  
S308 store image data  
S310 transmit to image processing server  
S312 describe in drawing language  
S314 transmit to printer

Fig. 26



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画像処理リバート処理  
(S32)

Fig. 26

S320 communication processing  
S322 Is it necessary to execute RIP processing?  
S324 execute RIP processing with respect to entirety  
S326 corrected?  
S328 Is it necessary to execute color correcting processing?  
S330 execute color correcting processing with respect to difference  
S332 synthesizing processing  
S334 Is it necessary to execute color correcting processing?  
S336 execute color correcting processing with respect to entirety  
S338 update history  
S340 charging processing

図27

Fig. 27

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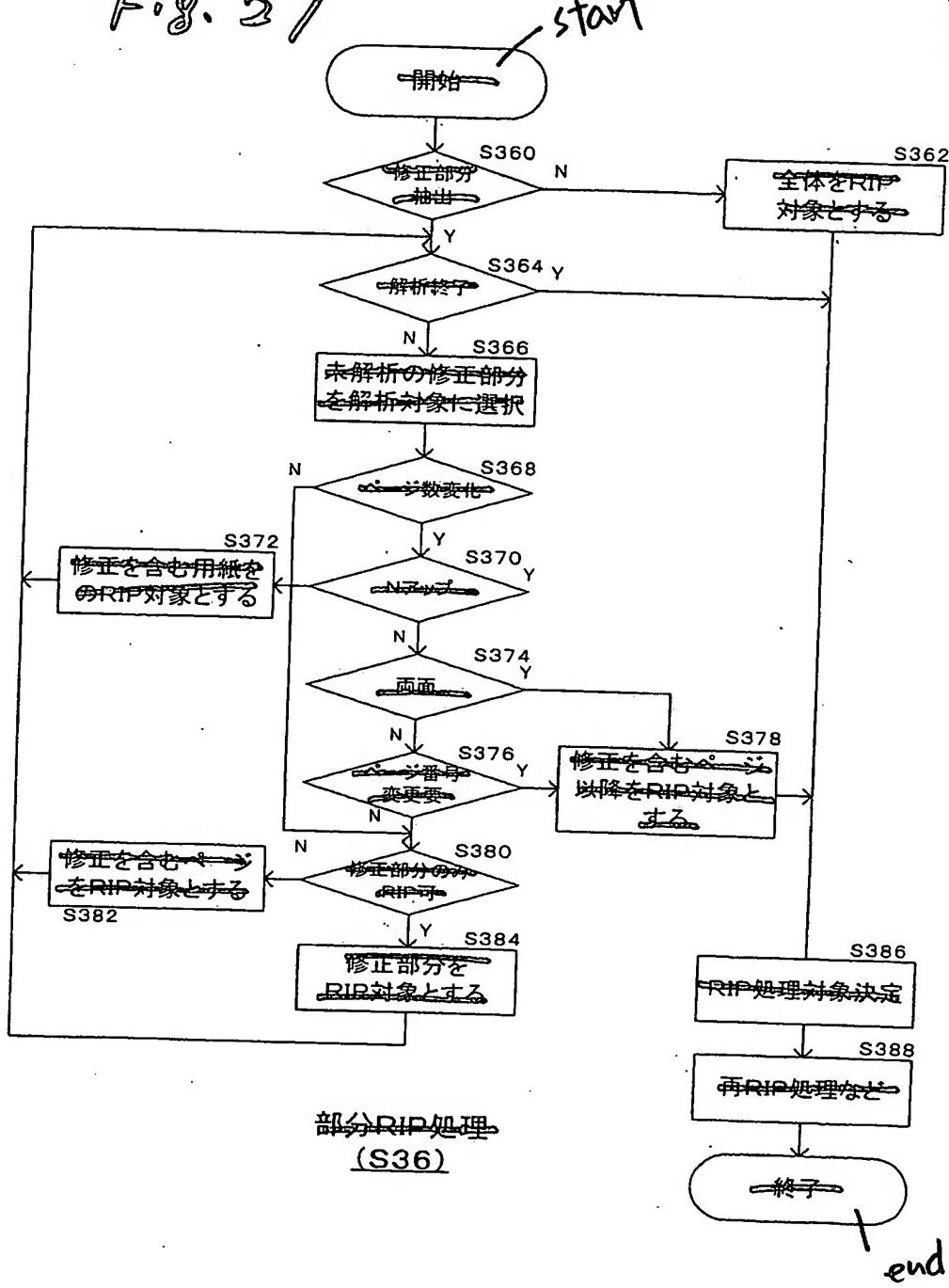


Fig. 27

S360 extract correcting portion  
S362 set entirety as a target of RIP processing  
S364 is analysis completed?  
S366 select unanalyzed correcting portion as a analysis target  
S368 is page number changed?  
S370 N-up printing?  
S372 set a paper containing correction as a target of RIP processing  
S374 double-side printing?  
S376 is it necessary to change page number?  
S378 set all pages following a page containing correction as a target of RIP processing  
S380 Is it possible to execute RIP processing with respect to only correcting portion?  
S382 set page containing correction as a target of RIP processing  
S384 set correcting portion as a target of RIP processing  
S386 determine target of RIP processing  
S388 execute re-RIP processing

Fig. 28

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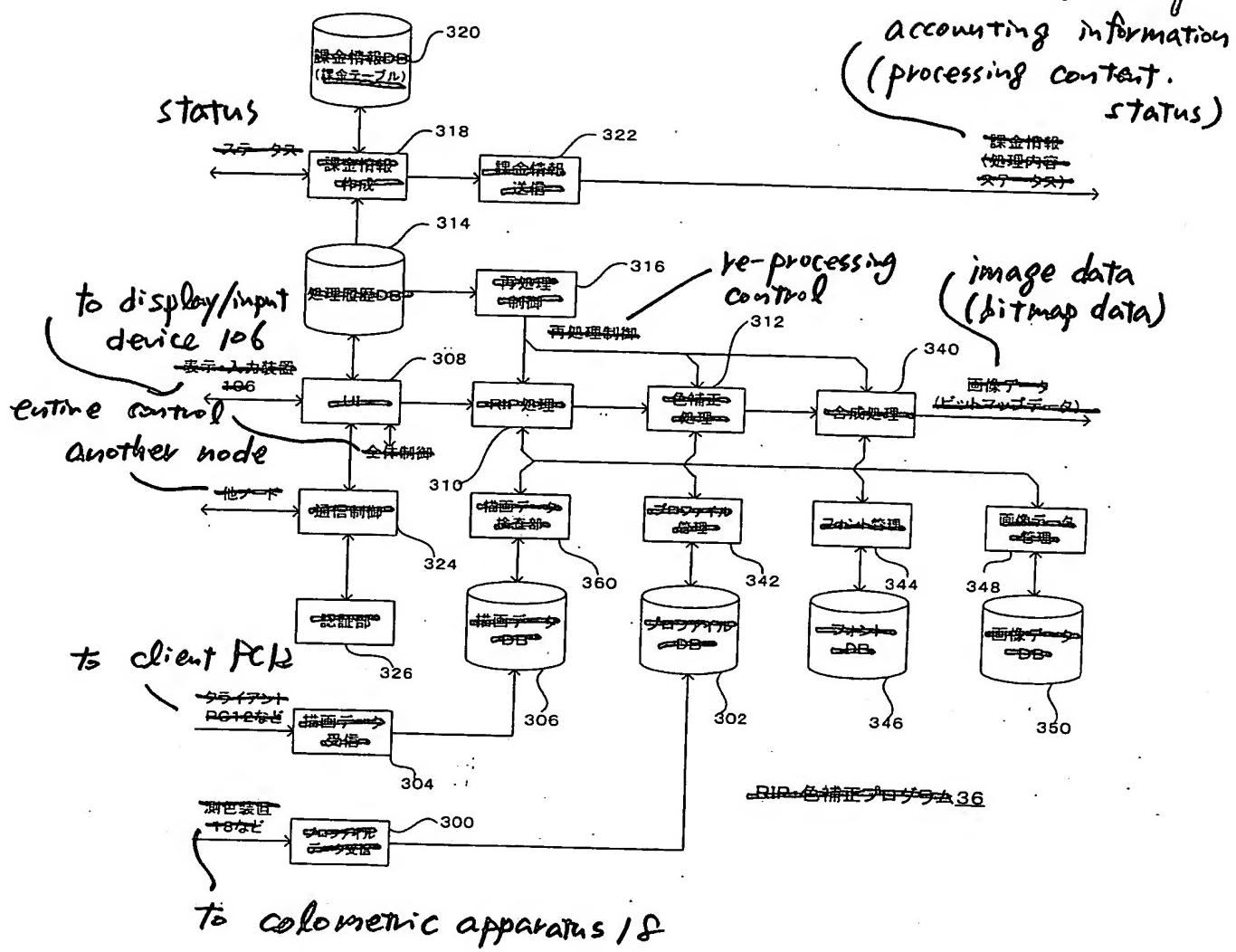
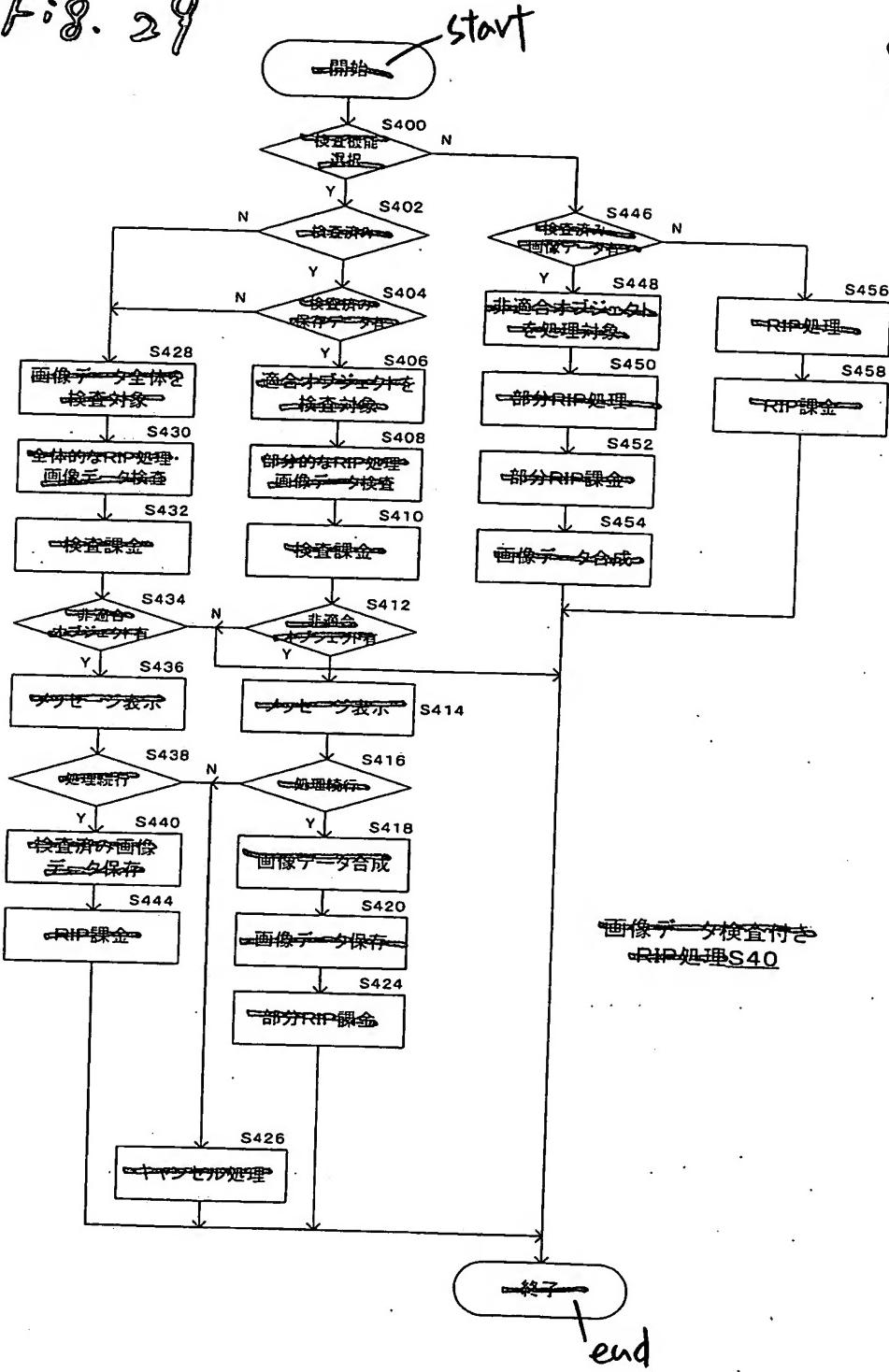


Fig. 28

300 profile data receiving section  
302 profile DB  
304 drawing data receiving section  
306 drawing data DB  
308 user interface section  
310 RIP processing section  
312 color correcting processing section  
314 process history DB  
316 re-processing control section  
318 accounting information generating section  
320 accounting information DB  
322 accounting information transmitting section  
324 communication control section  
326 authentication section  
340 synthesizing processing section  
342 profile managing section 342  
344 font managing section  
346 font DB  
348 image data managing section  
350 image data DB

Fig. 29

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画像データ検査付き  
RIP処理S40

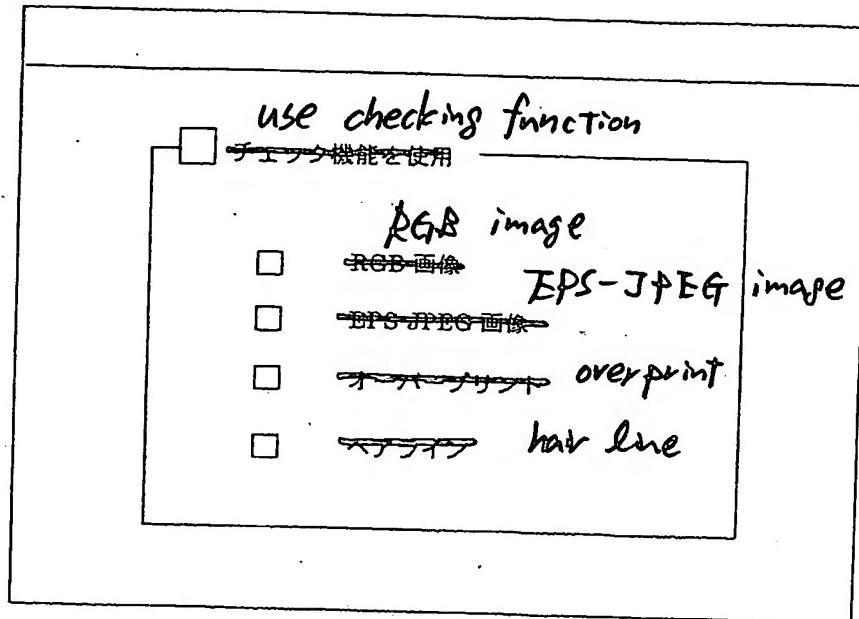
end

Fig. 29

S400 select checking function  
S402 checked?  
S404 is checked data stored?  
S406 select print applicable object as a checking target  
S408 execute partial RIP processing/check image data  
S410 charge for checking  
S412 is print inapplicable object detected?  
S414 display message  
S416 continue processing?  
S418 synthesize image data  
S420 store image data  
S424 charging for partial RIP processing  
S426 cancel processing  
S428 select entire image data as checking target  
S430 execute entire RIP processing/check image data  
S432 charge for checking  
S434 is print inapplicable object detected?  
S436 display message  
S438 continue processing?  
S440 store checked image data  
S444 charging for RIP processing  
S446 is checked data stored?  
S448 select print inapplicable object as processing target  
S450 execute partial RIP processing  
S452 charge for partial RIP processing  
S454 synthesize image data  
S456 execute RIP processing  
S458 charge for RIP processing

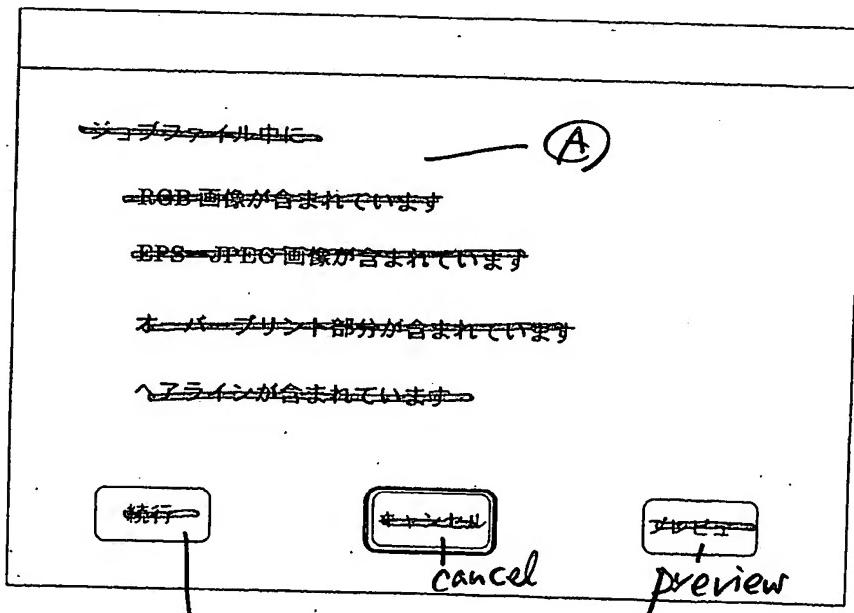
【図30】

Fig. 30



【図31】

Fig. 31



Continue

Fig. 31

Job file includes  
an RGB image,  
an EPS-JPEG image,  
an overprinting portion, and  
a hair line.